

## Tune Report

Following an EI autotune, you should examine the tune report:

- The mass assignments shown in the upper "profile" part of the display should be within  $\pm 0.2$   $m/z$  of 69, 219, and 502.
- The peak widths (PW) of these three peaks should be  $0.5 \pm 0.1$   $m/z$ .
- The mass assignments shown in the lower "scan" part of the display should be within  $\pm 0.1$   $m/z$  of 69, 219, and 502.
- The relative abundances should show that the peak at 69  $m/z$  is the largest. Relative to that peak, the one at 219  $m/z$  and the one at 502  $m/z$  should be in the range specified for the autotune you performed.
- The isotope (Iso) mass assignments should each be 1  $m/z$  greater than the mass assignments of the parent peaks.
- The isotope (Iso) ratio figures (indicating the relative abundances of the naturally occurring isotopes) should be close to the theoretical values of 1.08 for  $m/z$  69, 4.32 for  $m/z$  219, and 10.09 for  $m/z$  502.
- If mass 28 is greater than mass 18, there may be an air leak somewhere in the system. Exceptions are when it is within 1 hour of venting, or during the first autotune after refilling the calibration vial. See the Troubleshooting section of the online help for information about how to isolate air leaks.